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SEQUENCE LISTING

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<120> CEA/NCA-BASED DIFFERENTIATION CANCER THERAPY

<130> 186.009US1

<140> 09/637,530
<141> 2000-08-11

<150> CA99/00119
<151> 1999-02-11

<150> CA 2,224,129
<151> 1998-02-12

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<170> PatentIn Ver. 2.1

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Val Leu Ile Leu Val His Asn Leu Pro Gln His Leu Phe Gly Tyr Ser
20 25 30

Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile Gly Tyr
35 40 45

Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg
50 55 60

Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln
65 70 75 80

Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
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Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
100 105

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Gly Ala Ser Trp Tyr Lys
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Gly Tyr Ser Trp Tyr Ala
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Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly Tyr Ser
20 25 30

Trp Tyr Lys Gly Glu Arg Val Asp Gly Gly Tyr Val Ile Gly Thr Gln
35 40 45

Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg Glu Ile Ile Tyr Pro
50 55 60

Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe
65 70 75 80

Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val Asn Glu Glu Ala Thr
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Gly Gln Phe Arg Val Tyr
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Lys	Leu	Thr	Ile	Glu	Ser	Thr	Pro	Phe	Asn	Val	Ala	Glu	Gly	Lys	Glu
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Val	Leu	Leu	Leu	Val	His	Asn	Leu	Pro	Gln	His	Leu	Phe	Gly	Tyr	Ser
													30		
20							25								

Trp	Tyr	Lys	Gly	Glu	Arg	Val	Asp	Gly	Asp	Arg	Gln	Ile	Ile	Gly	Tyr
35														45	

Val	Ile	Gly	Thr	Gln	Gln	Ala	Thr	Pro	Gly	Pro	Ala	Tyr	Ser	Gly	Arg
50														60	
				55											

Glu	Ile	Ile	Tyr	Pro	Asn	Ala	Ser	Leu	Leu	Ile	Gln	Asn	Ile	Ile	Gln
65															80
				70						75					

Asn	Asp	Thr	Gly	Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val
														95	
85								90							

Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val	Tyr					
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Lys	Leu	Thr	Ile	Glu	Ser	Thr	Pro	Phe	Asn	Val	Ala	Glu	Gly	Lys	Glu
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Val	Leu	Leu	Leu	Val	His	Asn	Leu	Pro	Gln	His	Leu	Phe	Gly	Tyr	Ser
													30		
20							25								

Trp	Tyr	Lys	Gly	Glu	Arg	Val	Asp	Gly	Asn	Arg	Gln	Lys	Ile	Gly	Tyr
35														45	

Val	Ile	Gly	Thr	Gln	Gln	Ala	Thr	Pro	Gly	Pro	Ala	Tyr	Ser	Gly	Arg
50														60	
				55											

Glu	Ile	Ile	Tyr	Pro	Asn	Ala	Ser	Leu	Leu	Ile	Gln	Asn	Ile	Ile	Gln
65															80
				70						75					

Asn	Asp	Thr	Gly	Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val
														95	
85								90							

Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val	Tyr					
100								105							

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<400> 15

Lys	Leu	Thr	Ile	Glu	Ser	Thr	Pro	Phe	Asn	Val	Ala	Glu	Gly	Lys	Glu
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1	5	10	15
Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly Tyr Ser			
20	25	30	
Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Val Gly Tyr			
35	40	45	
Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg			
50	55	60	
Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln			
65	70	75	80
Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val			
85	90	95	
Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr			
100	105		

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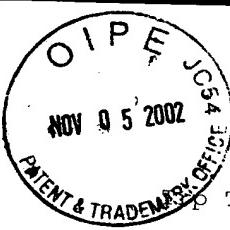
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1	5	10	15
Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly Tyr Ser			
20	25	30	
Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Arg Ile Val Gly Tyr			
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Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg			
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Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln			
65	70	75	80
Asn Asp Thr Cys Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val			
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<400> 17

Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly Lys Glu			
1	5	10	15
Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Cys Tyr Ser			
20	25	30	



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Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile Gly Tyr
35 40 45

Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg
50 55 60

Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Ala
65 70 75 80

Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
85 90 95

Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
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<210> 18

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Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly Lys Glu
1 5 10 15

Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly Tyr Ser
20 25 30

Trp Tyr Lys Cys Glu Arg Val Asp Gly Asn Arg Gln Ile Ile Gly Tyr
35 40 45

Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg
50 55 60

Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Arg
65 70 75 80

Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
85 90 95

Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
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Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly Lys Glu
1 5 10 15

Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly Tyr Ser
20 25 30

Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile Gly Tyr
35 40 45

Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg
50 55 60



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Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln
65 70 75 80

Ala Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
85 90 95

Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
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Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly Lys Glu
1 5 10 15

Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly Glu Arg
20 25 30

Val Asp Gly Asn Arg Gln Ile Ile Gly Tyr Val Ile Gly Thr Gln Gln
35 40 45

Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg Glu Ile Ile Tyr Pro Asn
50 55 60

Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe Tyr
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Thr Leu His Val Ile Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly
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Gln Phe Arg Val Tyr
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Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly Ala Ser
20 25 30

Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile Cys Tyr
35 40 45

Val Ile Gly Thr Gln Gln Ala Thr Pro Cys Pro Ala Tyr Ser Gly Arg
50 55 60

Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln
65 70 75 80

Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val

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85

90

95

Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
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Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly Lys Glu
1 5 10 15

Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly Tyr Ser
20 25 30

Trp Ala Lys Cys Glu Arg Val Asp Gly Asn Arg Gln Ile Ile Gly Tyr
35 40 45

Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg
50 55 60

Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln
65 70 75 80

Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
85 90 95

Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
100 105

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Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly Lys Glu
1 5 10 15

Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly Tyr Ser
20 25 30

Trp Phe Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile Gly Tyr
35 40 45

Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg
50 55 60

Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln
65 70 75 80

Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
85 90 95

Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
100 105

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Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly Tyr Ser
20 25 30

Trp Tyr Ala Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile Gly Tyr
35 40 45

Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg
50 55 60

Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln
65 70 75 80

Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
85 90 95

Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
100 105